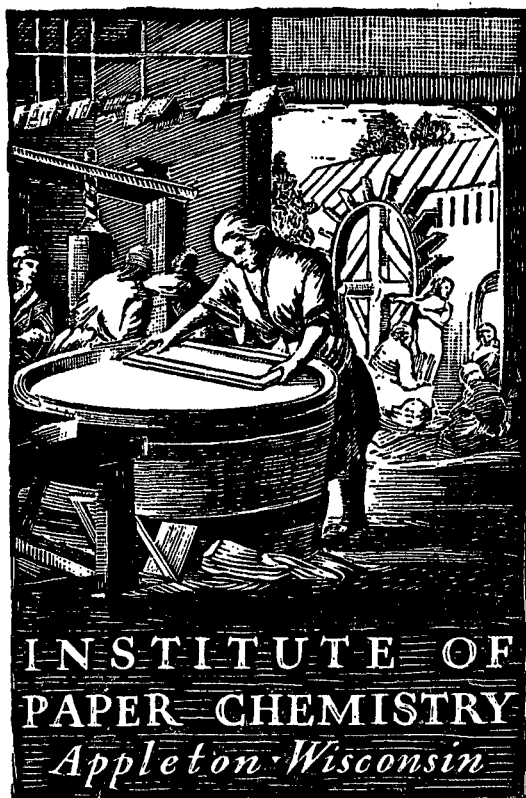


Property of  
National Acad. Library  
National Academies Corporation  
1200 Constitution Avenue, N.E.  
Washington, D.C.



INSTITUTE OF  
PAPER CHEMISTRY  
*Appleton Wisconsin*

## PRODUCTION DATA REPORT

Project 1108-13

Supplementary Report Twelve

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

November 1, 1955

FOREST PRODUCTS R & D  
FILE COPY  
DO NOT REMOVE

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

PRODUCTION DATA REPORT

Project 1108-13

Supplementary Report Twelve

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

November 1, 1955

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

The production data contained herein represent the production of linerboard as reported by the following Fourdrinier Kraft Board Institute member mills for the third quarter of 1955:

The Brown Paper Mill Co., Inc.

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Gaylord Container Corporation

International Paper Company

Georgia Kraft Company

National Container Corporation

North Carolina Pulp Co. & Kieckhefer Container Co.

St. Joe Paper Company

St. Regis Paper Company

Southern Paperboard Corporation

Union Bag and Paper Corporation

West Virginia Pulp and Paper Company

As in previous reports, the data have been tabulated according to (1) total production by quarters and (2) production by grades by quarters.

The total production for the first and second quarters of 1955 is given in Table I and graphically illustrated in Figure 1. The total production for 1954 is also included in Table I and Figure 1 for comparison. The production by grades per quarter may be seen in Table II

together with the corresponding tonnages for the previous four quarters. In addition, percentage production by grades is given in Table III for the current quarter and the previous four quarters. These figures are based on the total production per quarter computed separately with the miscellaneous figure included and with the miscellaneous figure excluded. The major tonnage grades--namely, 26-lb., 33-lb., 38-lb., 42-lb., 47-lb., 69-lb., 90-lb., and miscellaneous are illustrated in Figures 2 through 9, respectively, together with the production for the previous quarters.

In order to give a better perspective of the above data, the tonnages for the major grades have been plotted on a semi-logarithmic scale (see Figure 10) for the purpose of comparing the change in production of these grades. A useful measure is the "percentage change" which is defined as the change in production in tons for the present quarter divided by the tonnage level of the previous quarter. The advantage of semi-log graphs in this case is that the "percentage change" may be compared readily even though the magnitude of the tonnage levels may be vastly different. When two lines are parallel (regardless of magnitude), the "percentage change" of these two items is the same. When two lines are not parallel, the one with the greater (steeper) slope has the higher "percentage change."

There are a number of comparisons which may be of interest. Some of these are the following:

1. The figure for total production increased from 945.6 thousand tons for the second quarter of 1955 to 965.2 thousand tons for the third

quarter of 1955, the highest tonnage recorded since the inception of these reports. If this rate of production continues throughout the year, the yearly tonnage will be in excess of 3-1/2 million tons.

2. The tonnages of all major grades for the second and third quarters are shown below. Compared with the second quarter production of the corresponding grades, production of the following grades increased during the third quarter: 38-lb., 42-lb., and 90-lb.; whereas production of 26-lb., 33-lb., 47-lb., and 69-lb. decreased.

|        | 1955 Tonnages  |               |
|--------|----------------|---------------|
|        | Second Quarter | Third Quarter |
| 26-lb. | 83,798         | 76,568        |
| 33-lb. | 52,559         | 50,552        |
| 38-lb. | 71,086         | 71,121        |
| 42-lb. | 429,010        | 448,500       |
| 47-lb. | 43,892         | 37,456        |
| 69-lb. | 104,621        | 102,412       |
| 90-lb. | 50,210         | 53,013        |

3. The tonnage of miscellaneous linerboard decreased from 85,267 for the second quarter of 1955 to 82,301 for the third quarter of 1955.

TABLE I

TOTAL PRODUCTION OF ALL GRADES

|             |  | Total Tonnage |
|-------------|--|---------------|
| 1954        |  |               |
| 1st quarter |  | 720,954       |
| 2nd quarter |  | 770,597       |
| 3rd quarter |  | 765,742       |
| 4th quarter |  | 853,434       |
| 1955        |  |               |
| 1st quarter |  | 886,487       |
| 2nd quarter |  | 945,631       |
| 3rd quarter |  | 965,247       |

Figure 1. Paper Board Production of All Grades

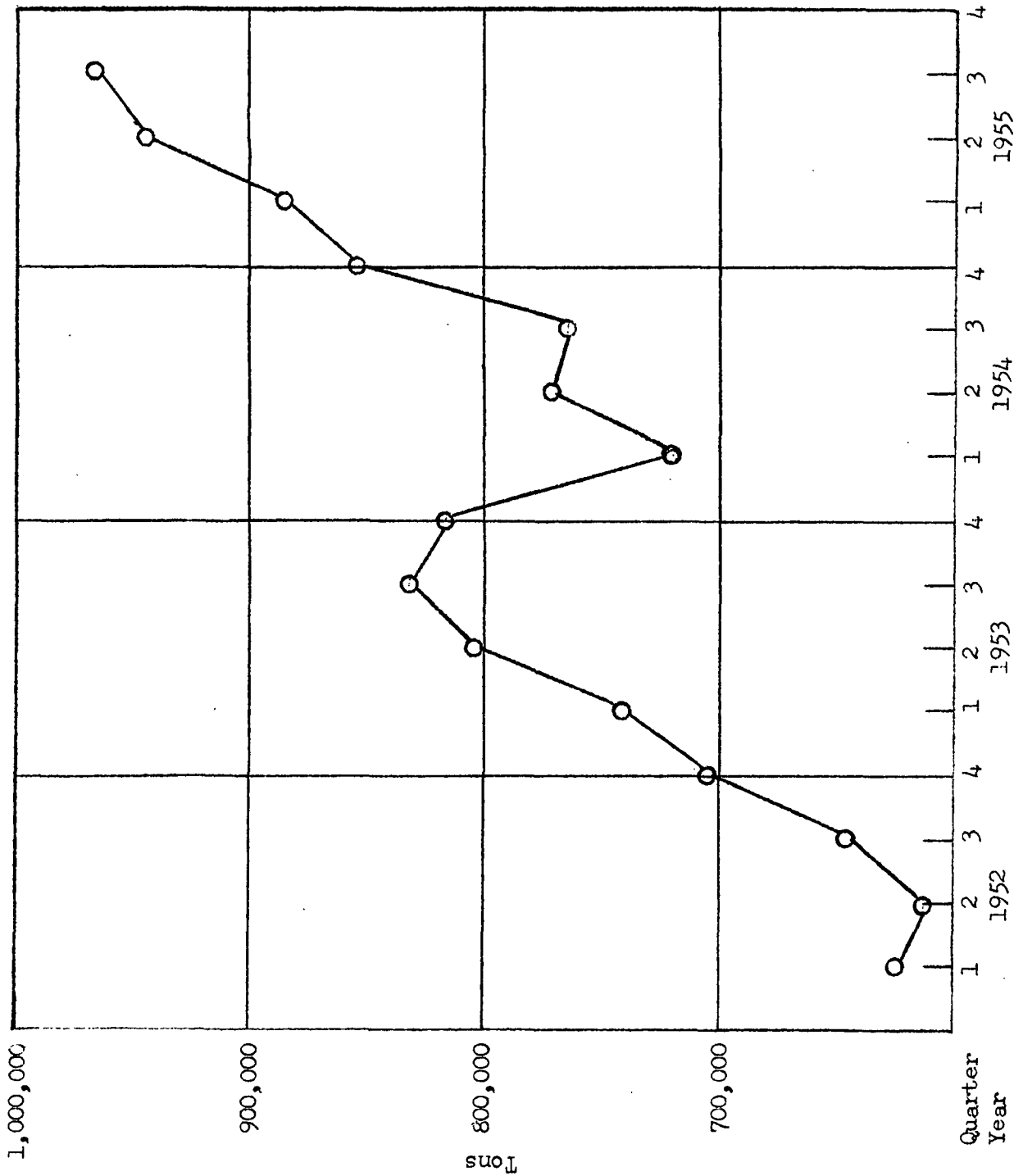


TABLE II  
TOTAL TONNAGE BY GRADE

|             | 26-lb. | 27-lb. | 28-lb. | 30-lb.  | 32-lb. | 33-lb. | 36-lb. | 37-lb. | 38-lb. | 40-lb.        | 42-lb.  |
|-------------|--------|--------|--------|---------|--------|--------|--------|--------|--------|---------------|---------|
| 1954        |        |        |        |         |        |        |        |        |        |               |         |
| 3rd quarter | 72,913 | --     | 5,485  | 930     | 559    | 35,905 | 513    | --     | 55,313 | --            | 363,272 |
| 4th quarter | 77,474 | --     | 2,301  | 444     | 635    | 41,648 | 71     | 512    | 61,492 | --            | 395,928 |
| 1955        |        |        |        |         |        |        |        |        |        |               |         |
| 1st quarter | 74,470 | --     | 2,948  | 2,113   | 465    | 47,507 | 1,251  | 357    | 60,999 | 768           | 399,826 |
| 2nd quarter | 83,798 | --     | 3,120  | 2,759   | 533    | 52,559 | 153    | --     | 71,086 | --            | 429,010 |
| 3rd quarter | 76,568 | 277    | 2,624  | 1,885   | 543    | 50,552 | 1,733  | --     | 71,121 | 7,550         | 448,500 |
|             | 45-lb. | 47-lb. | 48-lb. | 50-lb.  | 51-lb. | 52-lb. | 56-lb. | 57-lb. | 58-lb. | 59-lb.        | 60-lb.  |
| 1954        |        |        |        |         |        |        |        |        |        |               |         |
| 3rd quarter | 88     | 43,774 | --     | 672     | 670    | 1,099  | 371    | --     | --     | --            | 27      |
| 4th quarter | 13,827 | 39,947 | --     | 877     | 44     | 1,359  | 441    | --     | --     | 155           | 67      |
| 1955        |        |        |        |         |        |        |        |        |        |               |         |
| 1st quarter | 13,612 | 36,952 | --     | 1,431   | 209    | 1,307  | 253    | 204    | --     | 144           | --      |
| 2nd quarter | 13,358 | 43,892 | 785    | 836     | 769    | 1,555  | 155    | --     | 9      | --            | --      |
| 3rd quarter | 17,382 | 37,456 | 661    | 3,873   | 572    | 760    | 311    | --     | --     | 227           | --      |
|             | 62-lb. | 64-lb. | 65-lb. | 69-lb.  | 75-lb. | 76-lb. | 85-lb. | 90-lb. | 92-lb. | Miscellaneous |         |
| 1954        |        |        |        |         |        |        |        |        |        |               |         |
| 3rd quarter | 100    | 5,998  | --     | 74,291  | 11     | --     | 62     | 38,961 | --     | 64,728        |         |
| 4th quarter | 482    | 8,348  | 917    | 92,112  | 281    | --     | --     | 42,835 | 33     | 71,204        |         |
| 1955        |        |        |        |         |        |        |        |        |        |               |         |
| 1st quarter | 94     | 7,577  | 2,417  | 94,340  | 279    | --     | --     | 45,291 | --     | 91,673        |         |
| 2nd quarter | 230    | 282    | 423    | 104,621 | 221    | --     | --     | 50,210 | --     | 85,267        |         |
| 3rd quarter | 399    | 1,020  | 1,476  | 102,412 | --     | 2,031  | --     | 53,013 | --     | 82,301        |         |

TOTAL PRODUCTION BY GRADES, PER CENT

|             | 26-lb. Grade<br>With <sup>a</sup> outb | 27-lb. Grade<br>With <sup>a</sup> outb | 28-lb. Grade<br>With <sup>a</sup> outb | 30-lb. Grade<br>With <sup>a</sup> outb | 32-lb. Grade<br>With <sup>a</sup> outb | 33-lb. Grade<br>With <sup>a</sup> outb | 36-lb. Grade<br>With <sup>a</sup> outb | 37-lb. Grade<br>With <sup>a</sup> outb | 38-lb. Grade<br>With <sup>a</sup> outb | 40-lb. Grade<br>With <sup>a</sup> outb | 42-lb. Grade<br>With <sup>a</sup> outb |
|-------------|--|--|--|--|--|--|--|--|--|--|--|
| 1954        |  |  |  |  |  |  |  |  |  |  |  |
| 3rd quarter | 9.5                                    | 10.4                                   | --                                     | --                                     | 0.1                                    | 0.1                                    | 0.1                                    | 0.1                                    | 7.2                                    | 7.9                                    | 47.4                                   |
| 4th quarter | 9.1                                    | 9.9                                    | --                                     | --                                     | 0.1                                    | 0.1                                    | 0.1                                    | 0.1                                    | 7.2                                    | 7.9                                    | 45.4                                   |
| 1955        |  |  |  |  |  |  |  |  |  |  |  |
| 1st quarter | 3.4                                    | 9.4                                    | --                                     | --                                     | 0.1                                    | 0.1                                    | 0.1                                    | 0.2                                    | 6.9                                    | 7.7                                    | 45.1                                   |
| 2nd quarter | 8.9                                    | 9.7                                    | --                                     | --                                     | 0.1                                    | 0.1                                    | 0.1                                    | 0.2                                    | 7.5                                    | 8.3                                    | 45.4                                   |
| 3rd quarter | 7.9                                    | 3.7                                    | c                                      | c                                      | 0.1                                    | 0.1                                    | 0.2                                    | 0.2                                    | 7.4                                    | 8.1                                    | 46.5                                   |
| 1954        |  |  |  |  |  |  |  |  |  |  |  |
| 3rd quarter | c                                      | 5.7                                    | --                                     | --                                     | 0.1                                    | 0.1                                    | 0.2                                    | 0.1                                    | --                                     | --                                     | c                                      |
| 4th quarter | 1.6                                    | 1.8                                    | 5.1                                    | --                                     | 0.1                                    | 0.1                                    | 0.2                                    | 0.1                                    | --                                     | --                                     | c                                      |
| 1955        |  |  |  |  |  |  |  |  |  |  |  |
| 1st quarter | 1.5                                    | 1.7                                    | --                                     | --                                     | 0.2                                    | 0.2                                    | 0.2                                    | c                                      | --                                     | --                                     | --                                     |
| 2nd quarter | 1.4                                    | 1.6                                    | 5.1                                    | 0.1                                    | 0.1                                    | 0.1                                    | 0.2                                    | c                                      | c                                      | c                                      | --                                     |
| 3rd quarter | 1.8                                    | 2.0                                    | 4.2                                    | 0.1                                    | 0.1                                    | 0.1                                    | 0.1                                    | --                                     | --                                     | c                                      | --                                     |
| 1954        |  |  |  |  |  |  |  |  |  |  |  |
| 3rd quarter | c                                      | c                                      | 6.2                                    | --                                     | 0.1                                    | 0.1                                    | 0.2                                    | 0.1                                    | --                                     | --                                     | c                                      |
| 4th quarter | 1.6                                    | 1.8                                    | 5.1                                    | --                                     | 0.1                                    | 0.1                                    | 0.2                                    | 0.1                                    | --                                     | --                                     | c                                      |
| 1955        |  |  |  |  |  |  |  |  |  |  |  |
| 1st quarter | 1.5                                    | 1.7                                    | 4.2                                    | --                                     | 0.2                                    | 0.2                                    | 0.2                                    | c                                      | --                                     | --                                     | --                                     |
| 2nd quarter | 1.4                                    | 1.6                                    | 5.1                                    | 0.1                                    | 0.1                                    | 0.1                                    | 0.2                                    | c                                      | c                                      | c                                      | --                                     |
| 3rd quarter | 1.8                                    | 2.0                                    | 4.2                                    | 0.1                                    | 0.1                                    | 0.1                                    | 0.1                                    | --                                     | --                                     | c                                      | --                                     |
| 1954        |  |  |  |  |  |  |  |  |  |  |  |
| 3rd quarter | c                                      | c                                      | 0.9                                    | --                                     | 9.7                                    | 10.6                                   | --                                     | 5.1                                    | 5.6                                    | 8.5                                    | 8.5                                    |
| 4th quarter | 0.1                                    | 0.1                                    | 1.1                                    | 0.1                                    | 10.8                                   | 11.8                                   | --                                     | 5.0                                    | 5.5                                    | 8.3                                    | 8.3                                    |
| 1955        |  |  |  |  |  |  |  |  |  |  |  |
| 1st quarter | c                                      | c                                      | 1.0                                    | 0.3                                    | 10.6                                   | 11.9                                   | --                                     | 5.1                                    | 5.7                                    | 10.3                                   | 10.3                                   |
| 2nd quarter | c                                      | c                                      | c                                      | c                                      | 11.1                                   | 12.2                                   | --                                     | 5.3                                    | 5.8                                    | 9.0                                    | 9.0                                    |
| 3rd quarter | c                                      | c                                      | 0.1                                    | 0.2                                    | 10.6                                   | 11.6                                   | 0.2                                    | 5.5                                    | 6.0                                    | 8.5                                    | 8.5                                    |

a Percentage based on the total production of all grades including Miscellaneous.

b Percentage based on the total production of all grades excluding Miscellaneous

c Less than a tenth of a per cent after rounding off.



Figure 2. Production, 26-lb.

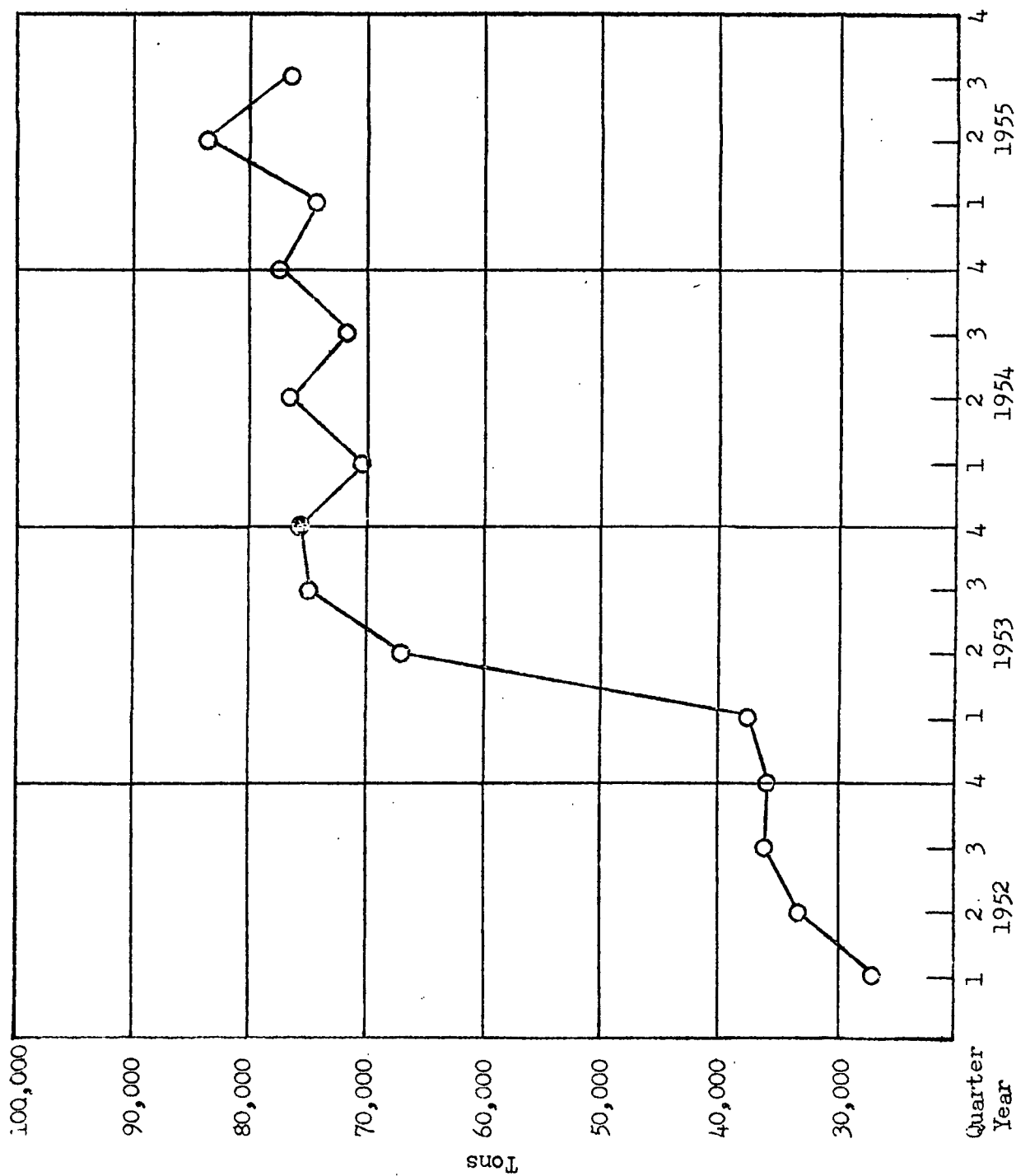


Figure 3. Production, 33-lb.

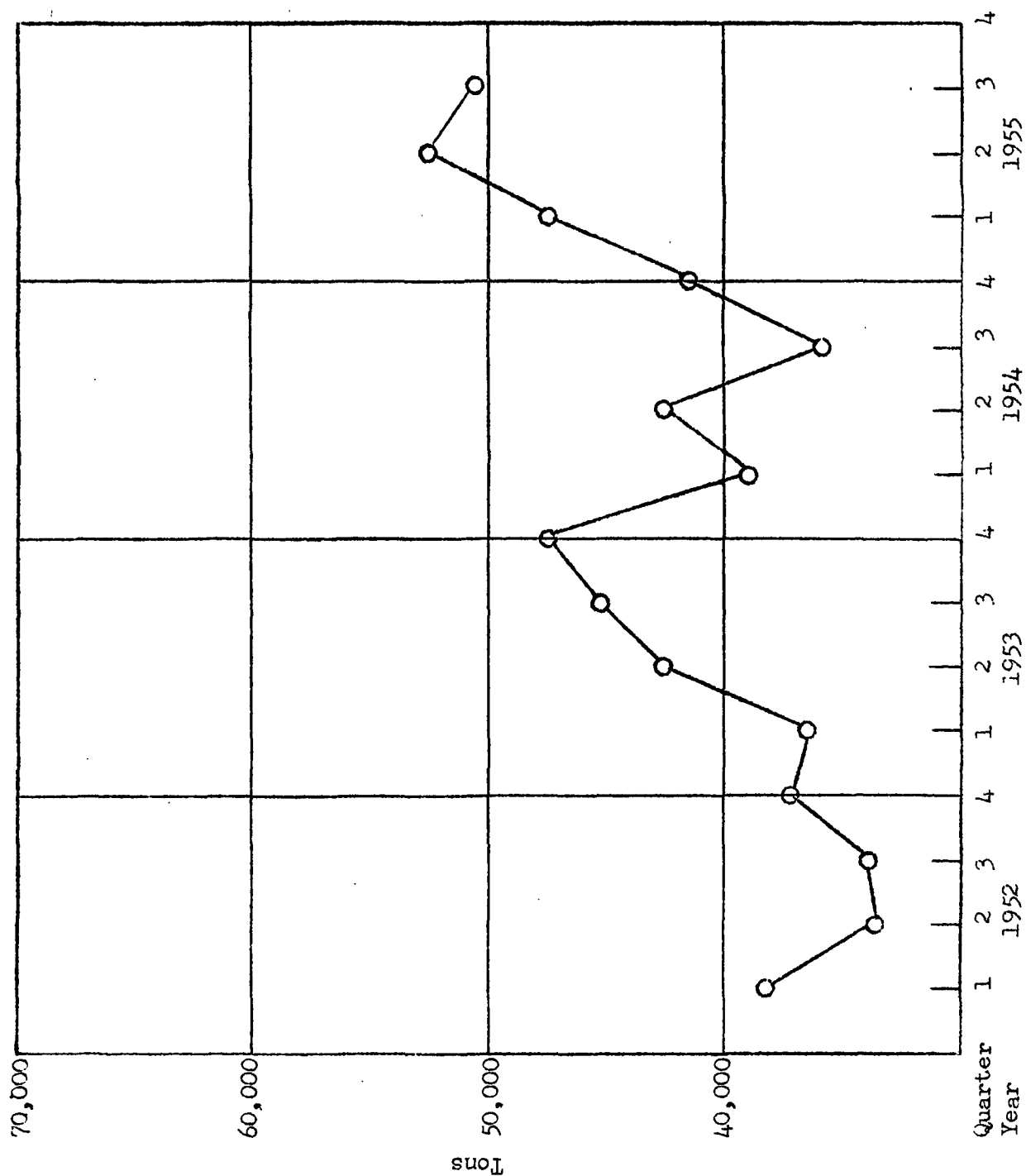


Figure 4. Production, 38-lb.

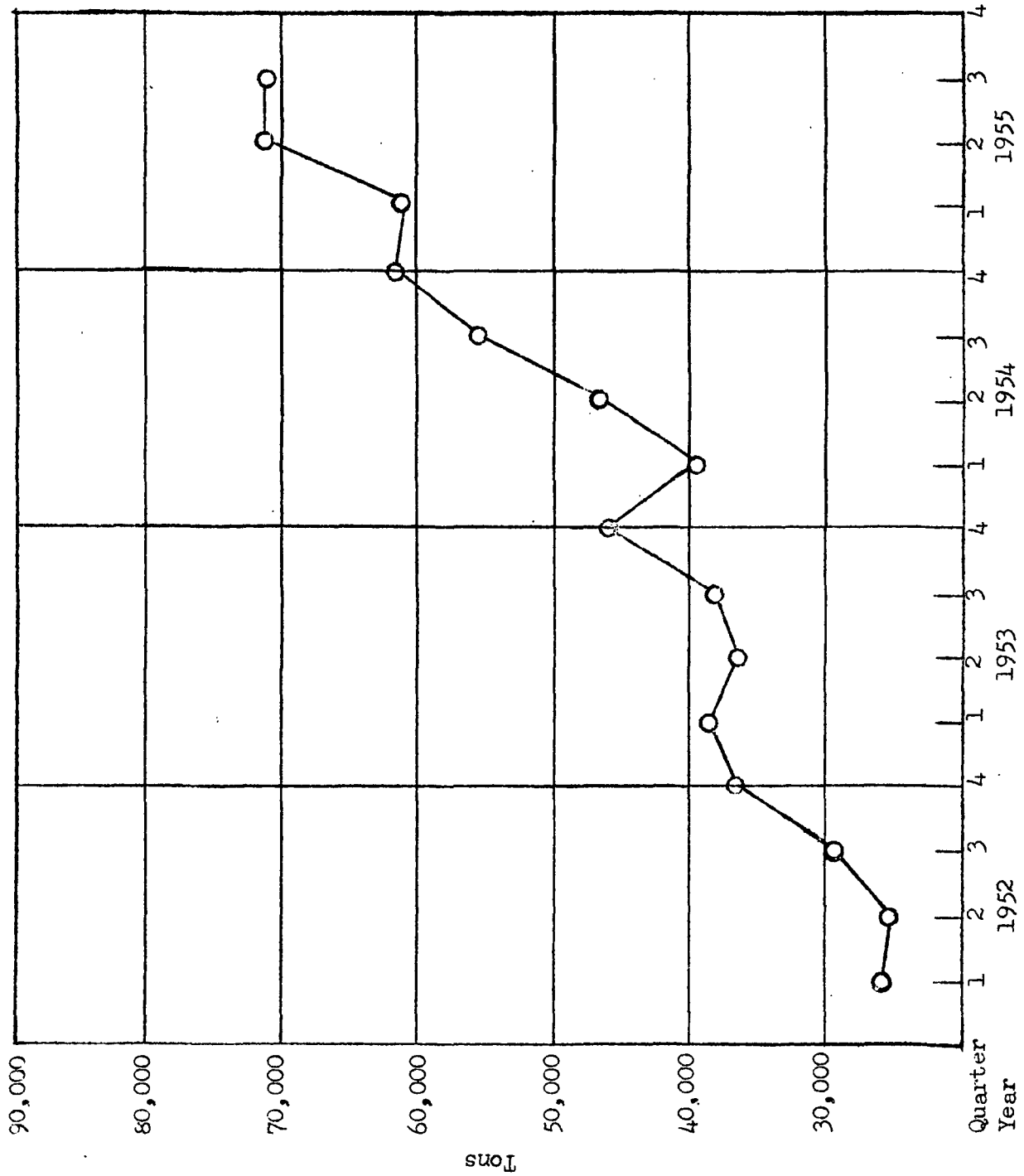


Figure 5. Production, 42-lb.

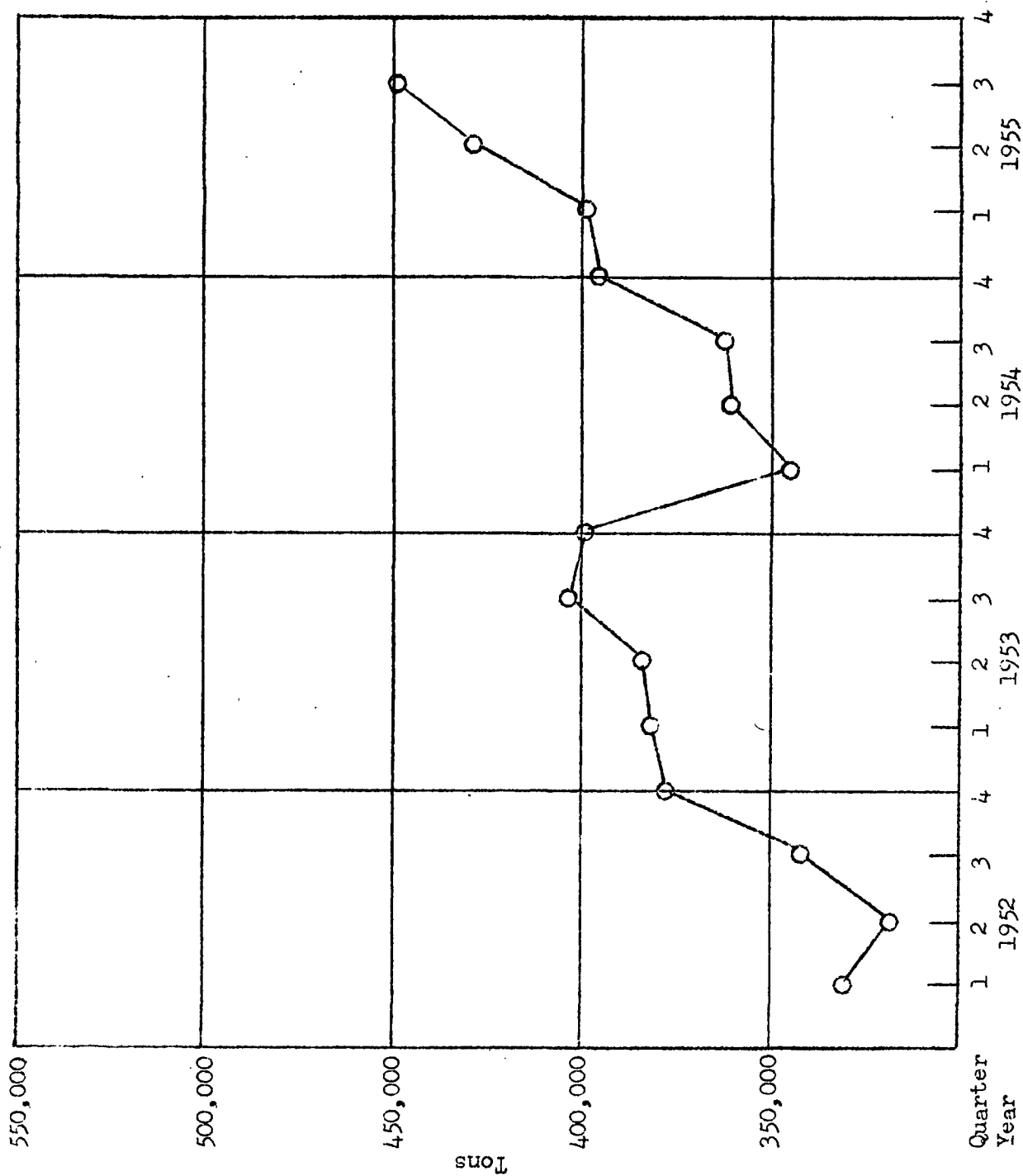


Figure 6. Production, 47-lb.

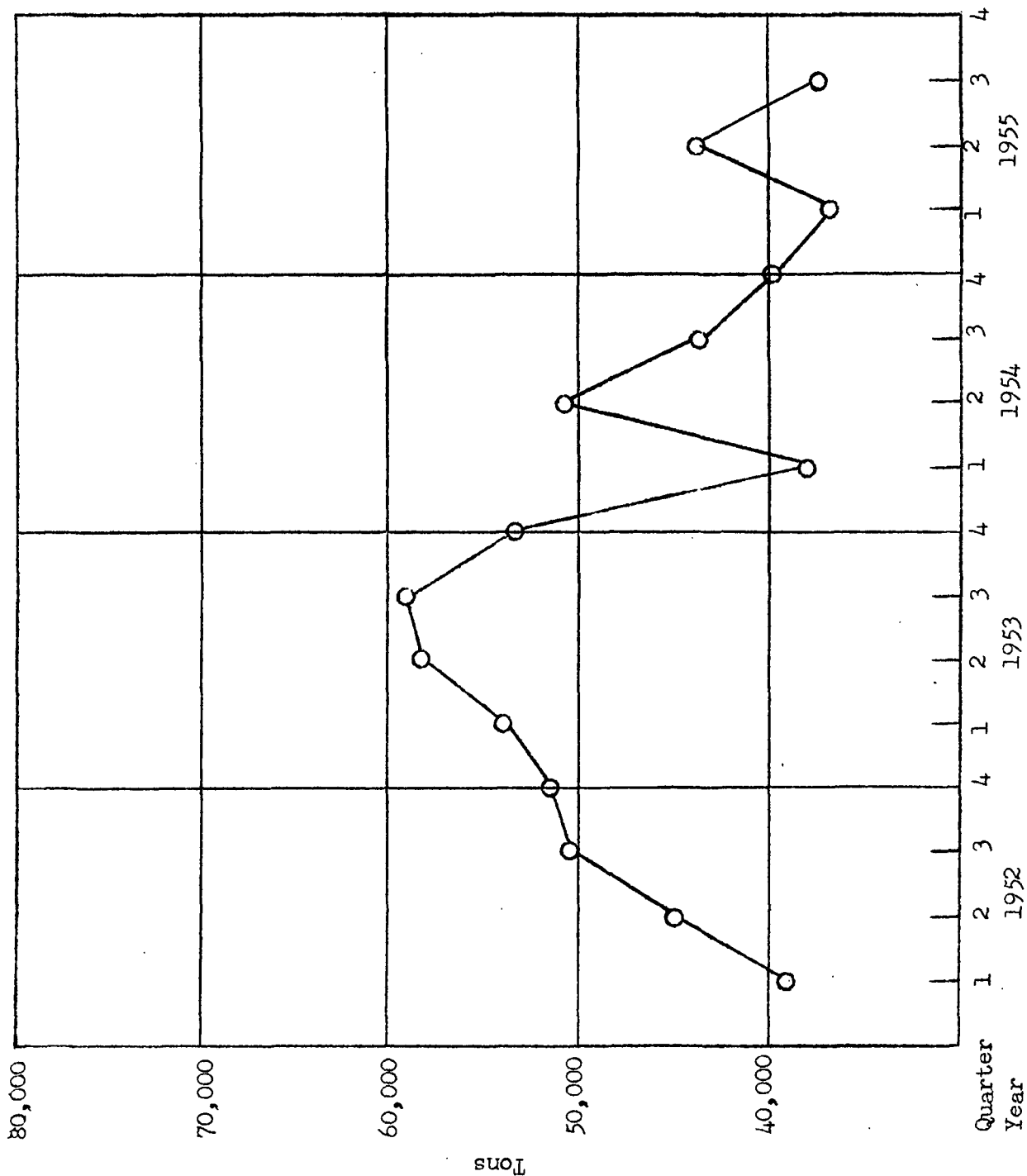


Figure 7. Production, 69-lb.

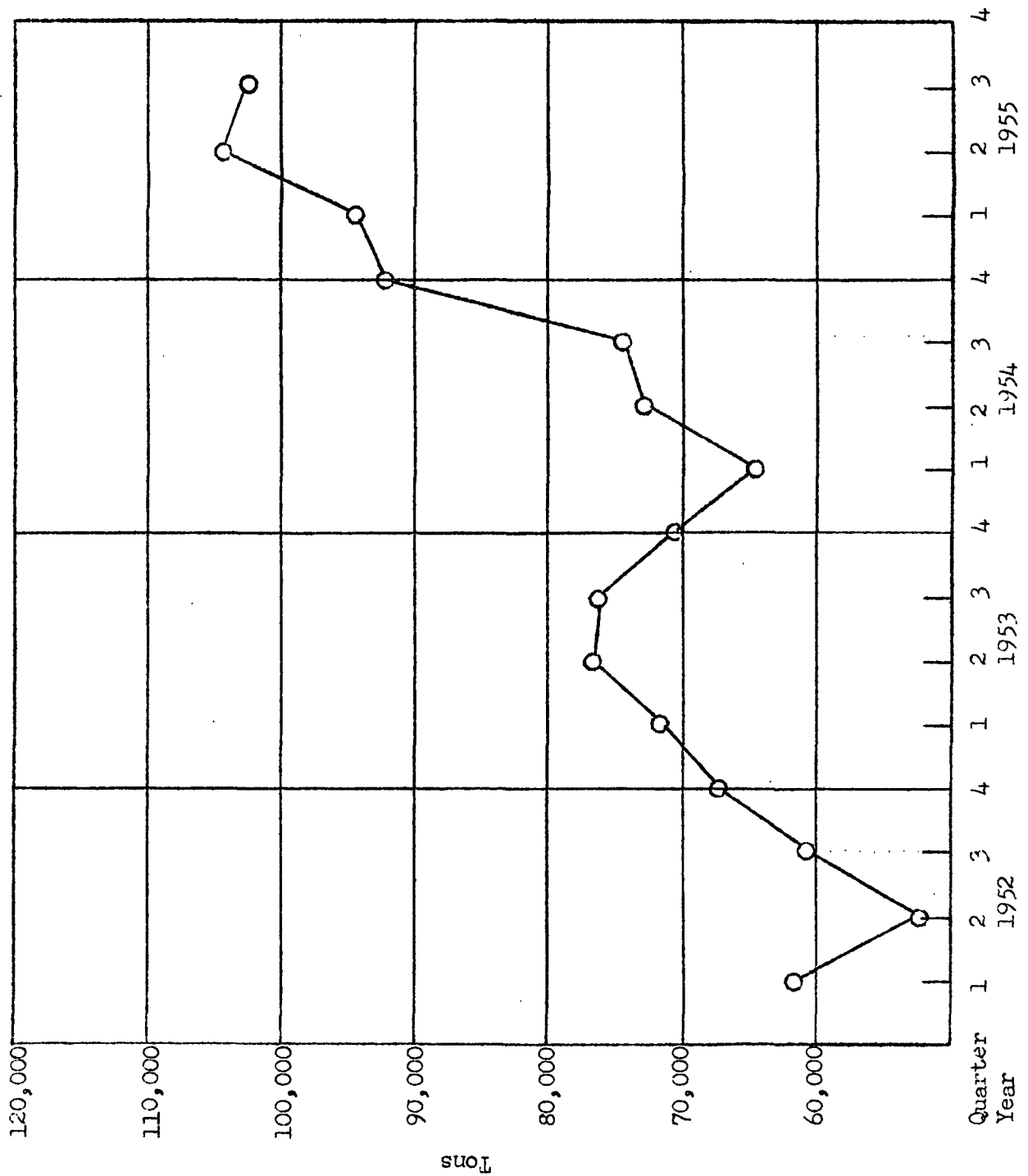


Figure 8. Production, 90-lb.

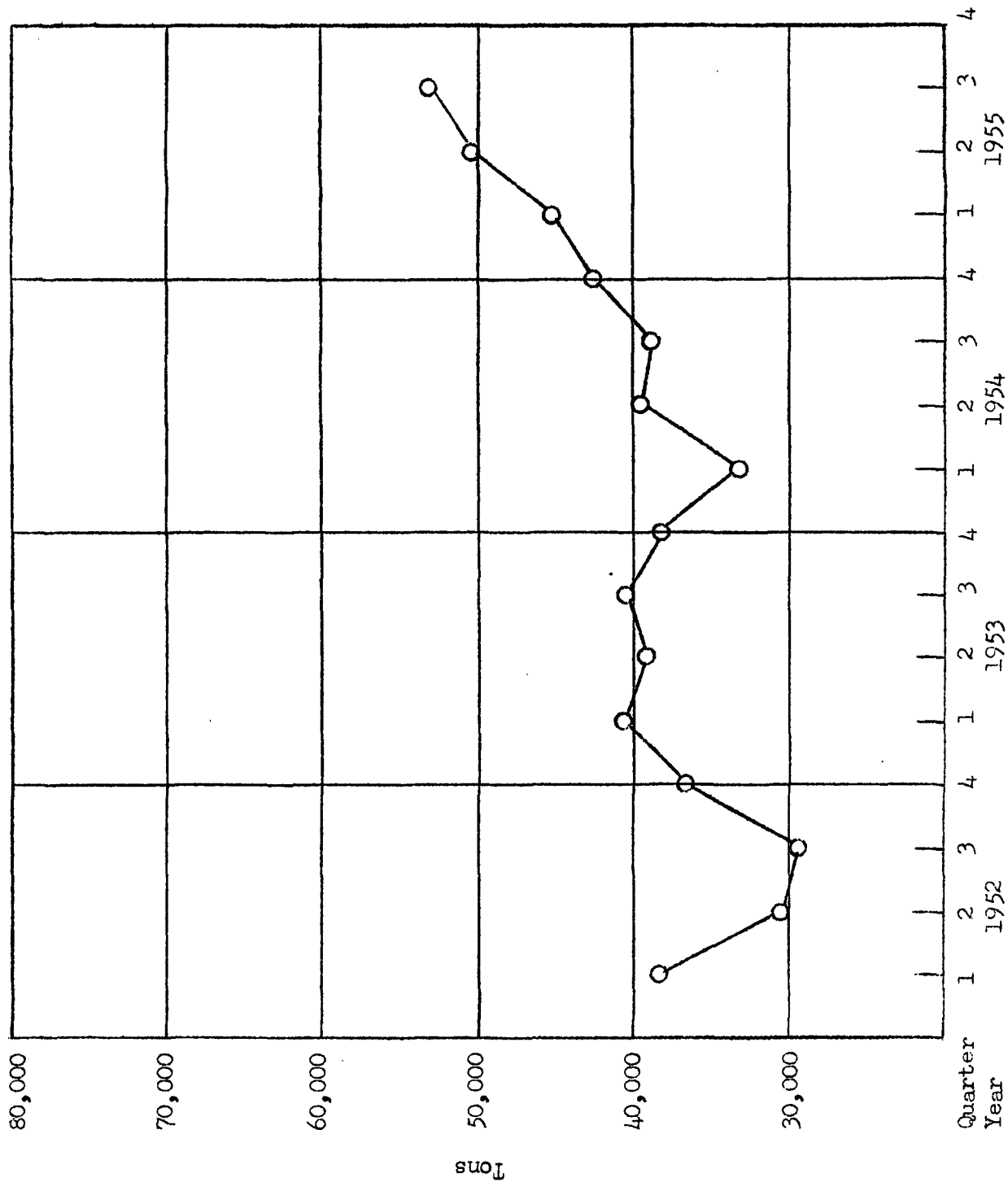
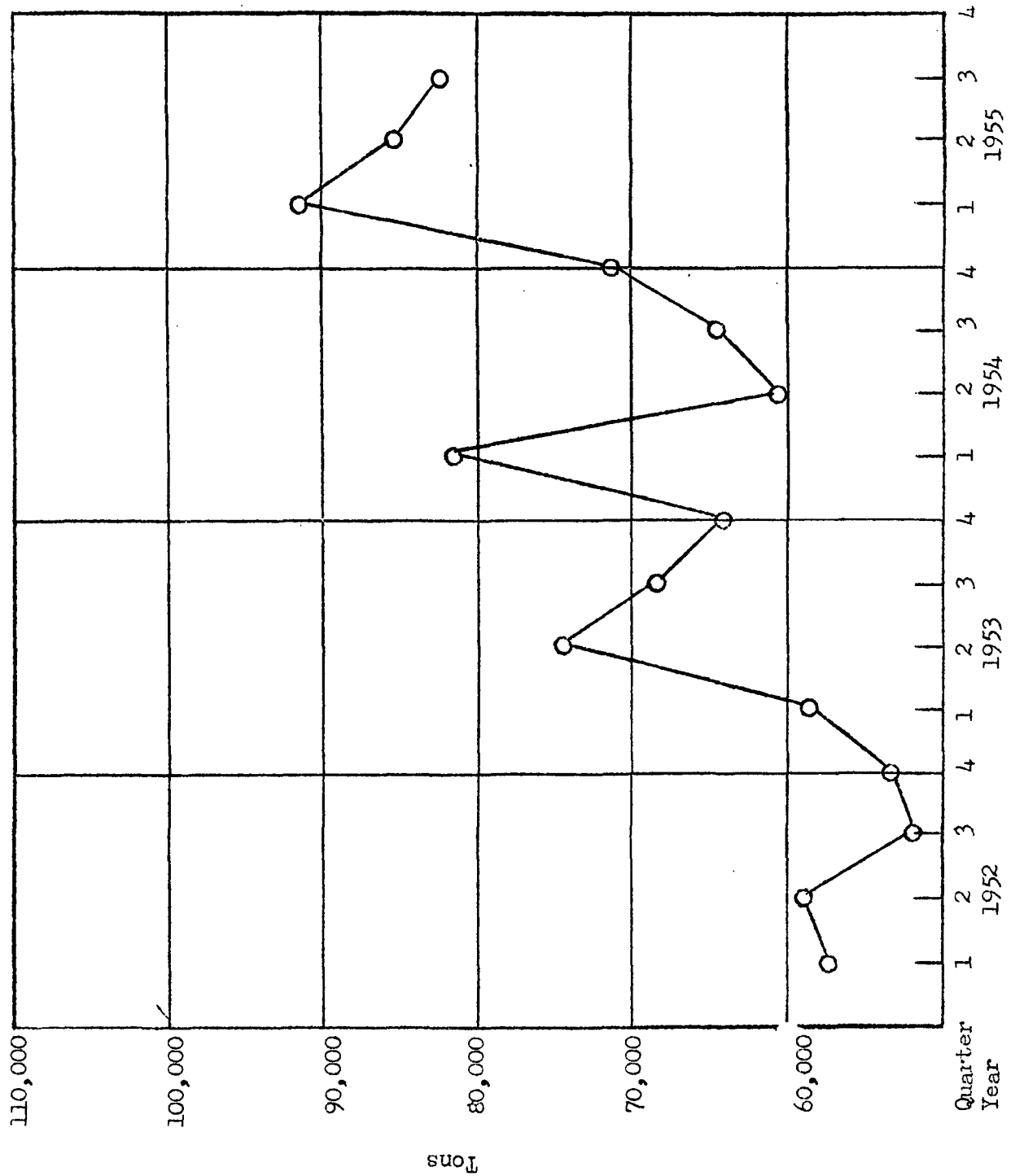


Figure 9. Production, Miscellaneous





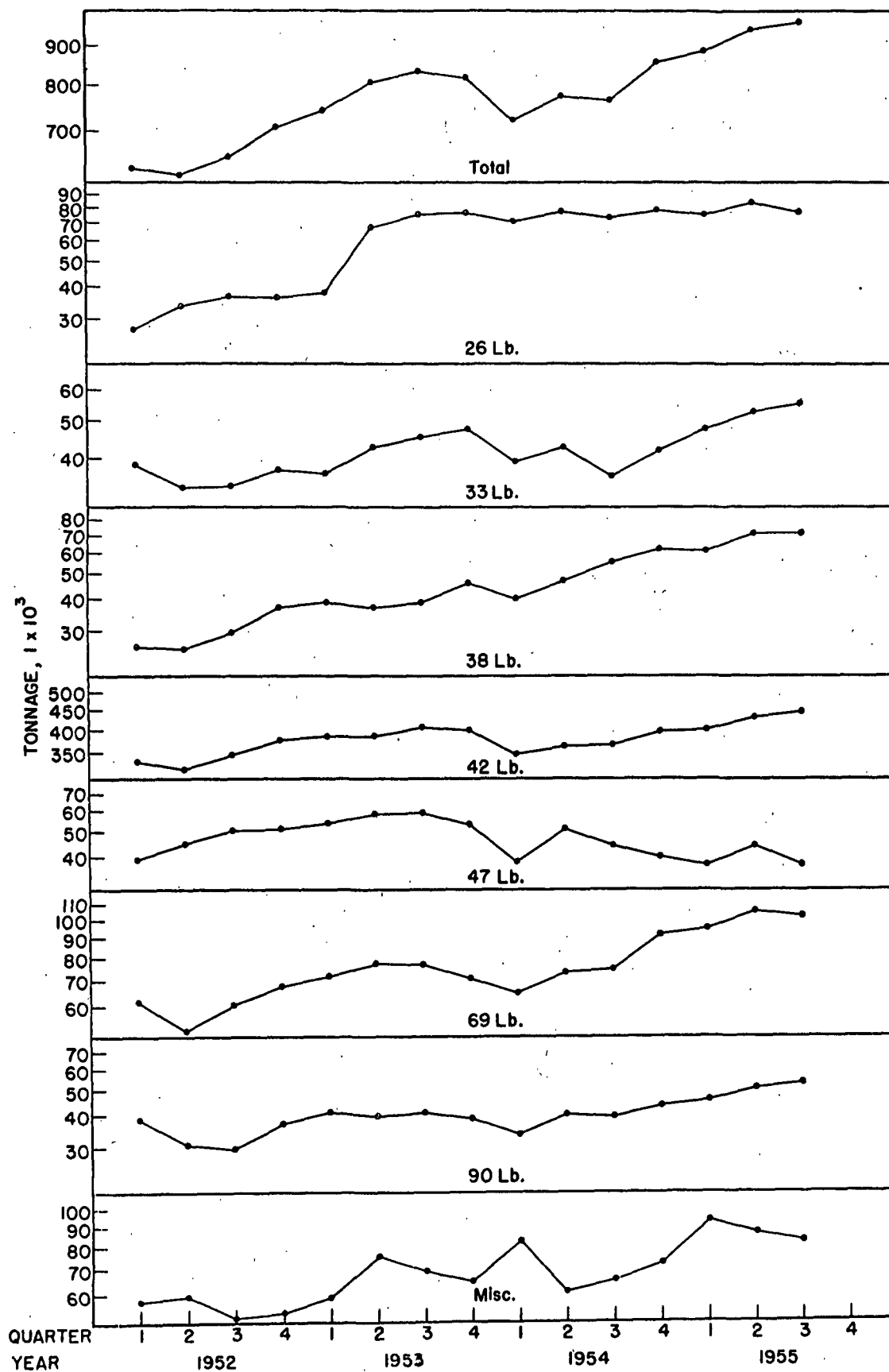


Figure 10.  
Comparison of Percentage Changes in Production for All Grades

IPST HASELTON LIBRARY



5 0602 01064773 5